



Lenovo Intel Xeon Silver 4410T processor 2.7 GHz 26.25 MB

Brand : Lenovo

Product code: 4XG7A85277

Product name : Intel Xeon Silver 4410T

ThinkSystem ST650 V3 Intel Xeon Silver 4410T 10C 150W 2.7GHz Processor Option Kit w/o Fan

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ThinkSystem servers incorporate Intel Xeon Scalable Family processors to enable critical business workloads and applications. The Intel scalable design provides significant improvement in performance, advanced reliability, scalability and hardware-enhanced security. Enhancements include higher per-core performance, greater memory bandwidth, expanded I/O, and improved security. This page allows you compare the features of the processors.



Processor		Processor special features	
Processor manufacturer *	Intel	Intel® Speed Shift Technology	✓
Processor generation	Intel Xeon Scalable 4th Gen	Intel® Transactional Synchronization Extensions	✓
Processor model *	4410T	Intel® Total Memory Encryption	✓
Processor base frequency *	2.7 GHz	Intel® Control-flow Enforcement Technology (CET)	✓
Processor family *	Intel Xeon Silver	Intel® Crypto Acceleration	✓
Processor cores *	10	Intel® Platform Firmware Resilience Support	✓
Processor socket *	LGA 4677 (Socket E)	Maximum Enclave Size Support for Intel® SGX	64 GB
Processor series	Intel Xeon Silver 4000 Series	Intel VT-x with Extended Page Tables (EPT)	✓
Processor threads	20	Intel® OS Guard	✓
System bus rate	16 GT/s	Intel Software Guard Extensions (Intel SGX)	✓
Processor operating modes *	64-bit	Intel 64	✓
Processor boost frequency	4 GHz	Intel Virtualization Technology (VT-x)	✓
Processor cache	26.25 MB	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Thermal Design Power (TDP)	150 W	AVX-512 Fused Multiply-Add (FMA) units	2
Cooler included *	✗	Intel® Boot Guard	✓
Stepping	S3	Intel® Deep Learning Boost (Intel® DL Boost) on CPU	✓
Processor codename	Sapphire Rapids	Intel® Speed Select technology - Performance Profile (Intel® SST-PP)	✓
Processor ARK ID	232388	Intel® Resource Director Technology (Intel® RDT)	✓
Memory		Mode-based Execute Control (MBE)	✓
Maximum internal memory supported by processor	6 TB	Intel® QuickAssist Software Acceleration	✓
Memory types supported by processor	DDR4-SDRAM	Intel® On Demand Feature Activation	✓
Memory channels *	Octa-channel	Intel® Data Streaming Accelerator (DSA)	1 default devices
ECC	✓	Intel® Advanced Matrix Extensions (AMX)	✓
Graphics		Operational conditions	
On-board graphics card *	✗	Tcase	84 °C
Discrete graphics card *	✗	DTS Max	100 °C
On-board graphics card model *	Not available		
Discrete graphics card model *	Not available		
Features			
Execute Disable Bit	✓		
Market segment	Server		
Maximum number of PCI Express lanes	80		
PCI Express slots version	5.0		
Supported instruction sets	AMX, SSE4.2, AVX, AVX 2.0, AVX-512		
Scalability	2S		

Features		Technical details	
Embedded options available	✓	Launch date	Q1'23
Export Control Classification Number (ECCN)	5A992C	Status	Launched
Commodity Classification		Memory speed (max)	4000 MHz
Automated Tracking System (CCATS)	G180729	Number of UPI links	2
		Package carrier	E1B
Processor special features		Other features	
Intel® Hyper Threading Technology (Intel® HT Technology)	✓	Maximum internal memory	4 TB
Intel® Turbo Boost Technology	2.0		
Intel® AES New Instructions (Intel® AES-NI)	✓		
Intel Trusted Execution Technology	✓		



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